

August 17, 2010

Mr. Dan McCaskill, CIH **BNSF Railway Company** 2600 Lou Menk Drive Fort Worth, TX 76161

Re: **BNSF Asbestos Exposure Sampling Report**

Stimson Wye Track Removal

BNSF Kootenai River Subdivision- Milepost 1319.41 to East End 3rd Street Terminus

EPA Operable Unit 6

May 3-7, 2010

EMR Project No. 9329-001

Dear Mr. McCaskill:

EMR, Inc. (EMR) was contracted by the BNSF Railway Company (BNSF) to conduct Asbestos Exposure Sampling during demolition of track from east end of Libby Yard toward Stimson Lumber Yard, known as Stimson Wye. The primary purpose of this Asbestos Exposure Sampling event was to gather sufficient and representative air quality data to determine whether asbestos fiber releases were being created by track maintenance activities. This data allows BNSF Industrial Hygiene to determine worker exposure risk and whether current engineering controls and prescribed personal protective equipment are sufficient to protect BNSF workers. A secondary function of this sampling event was to collect air quality data from near the BNSF property boundary (stationary air samples).

The track demolition area lies within the United States Environmental Protection Agency (EPA)defined Operable Unit 6 (OU6), which is the designation for BNSF-owned property that may have been impacted by the loading and hauling of asbestos contaminated vermiculite. OU6 is roughly centered on Libby, Montana (MP 1319.5) and extends east to approximately MP 1301 and west to approximately MP 1341 (Figure 1). More specifically, work occurred along a twotrack industrial spur within the BNSF right-of-way located near BNSF Milepost (MP) 1319.41 and extended across two parallel track spurs to the East End terminus of 3rd Street (Figure 2). Work consisted of the disassembly and removal of approximately 2,115 feet of track and final grading. Steel components were removed for recycling and the ties were stockpile on-site for later disposal. The rails and other steel components were dismantled and removed by BNSF contractors Steel, Etc. and Patrick Construction (Contractors). A BNSF equipment operator assisted the Contractors by moving materials with a front end loader. Following removal of the steel components, the BNSF equipment operator removed, transported and stockpiled the wooden ties.

Potential worker hazards within OU6 consist of the potential disturbance of previouslydeposited tremolite and related mineral fibers during rail maintenance activities. Asbestos fibers within the track structure are associated with rail transport of W.R. Grace vermiculite ore or processed Zonolite shipped on this line through approximately 1990, the date of the mine closure.

ON-SITE PERSONNEL

EMR employee David Welch was mobilized to the Site to conduct the sampling effort. No EPA or CDM personnel were present at any time during sampling activities.

SAMPLING OVERVIEW

EMR mobilized to Libby, Montana on May 2, 2010 and sampling was conducted on May 3 through May 5 and May 7, 2010. During the sampling event two types of samples were collected: 1) personal air samples; and 2) stationary air samples. Personal air samples were collected only from BNSF workers that were associated with the project. Stationary air samples were collected from representative locations within the BNSF right of way.

The methods and equipment used to collect these samples is discussed below.

SAMPLING METHODS AND EQUIPMENT

Personal Air Sample Collection

The personal air sampling program utilized Gillian BDX II personal air pumps with flow rates varying from 2.3 L/m to 3.2 L/m. Flow rates were checked at the beginning and end of the sampling period with a calibrated rotameter. The pumps were equipped with Zefon 25mm Phase Contrast Microscopy (PCM) cassettes and 0.8 µm Mixed Cellulose Ester (MCE) filters, which were utilized for both PCM analysis by NIOSH 7400 and Transmission Electron Microscopy (TEM) analysis by Asbestos Hazard Emergency Response Act (AHERA) methods. All samples were submitted for AHERA TEM analysis by EMSL Analytical Inc.'s (EMSL) Libby, Montana laboratory. A total of 3 personal air samples were collected with one sample being collected per day on May 4, 5 and 7.

Stationary Air Sample Collection

Stationary air samples were collected using EMS Megalite high-volume air pumps equipped with Zefon 25mm PCM cassettes with 0.8 μm MCE filters. The high volume air pumps were powered by portable generators. The filters were suspended approximately four (4) feet above ground surface with the filter opening facing downward to prevent the deposition of foreign material on the filter. The high volume air pumps were checked and adjusted daily to achieve flow rates between 7.5 and 8.0 L/m as determined with a calibrated rotameter. All stationary air samples were submitted to EMSL for AHERA TEM analysis. A total of ten (10) stationary air samples were collected, however one (1) sample was not submitted for analysis due to the failure of a generator. Stationary air samples were collected on May 3rd, May 4th and May 7th.

Blank Collection

Sealed and open field blanks were collected on two of the four sampling days. Open blanks were collected by opening and resealing the filter cassette under normal sampling conditions. Sealed blanks were not opened prior to submission to the laboratory and serve to ensure that the sample cassettes were not contaminated prior to use. All blanks were submitted to EMSL, but only the blanks from May 5 were analyzed. The blanks from May 7 have been archived.

AHERA TEM analytical methods were chosen since they are widely applied to determine compliance with the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL). The AHERA TEM method simply counts the number of fibers in known sample area that are greater than 5µm in length and through visual inspection at a magnification of 20,000. As per 40 CFR Chapter I - Part 763, the target sensitivity for this method is 0.005 s/cc.

Due to variable levels of filter loading, two of the samples required indirect preparation to facilitate TEM analysis. Indirect and indirect ashing preparation methods were employed on one perimeter sample (050710-2) and one personal sample (P-3) (Table 1). A brief description of each preparation process is described below.

Indirect Preparation

- Sample resuspended in 100mL particle water
- Fractions filtered (10, 15, 25 and 50mL) on 0.2 µm filter backed by 5.0 µm filter.
- Selected volume processed to grids

Indirect Preparation with Ashing

- Loose materials in cassette consolidated with overloaded filter were prepared for ashing;
- Samples placed in LFE asher until filters have been completely ashed;
- Ashed sample re-suspended in 100 mL particle water.
- Fractions filtered (10, 15, 25 and 50mL) on 0.2 µm filter backed by 5.0 µm filter.
- Selected volume processed to grids

Both indirect preparation methods require dilution that results in an increase of analytical sensitivity.

DAILY ACTIVITY

The following is a daily summary of sampling activities from May 3 to May 7, 2010. Attachments consist of an analytical summary table, site maps, photolog of work activities (Attachment A), air monitoring data sheets with PCM air monitoring results (Attachment B), and complete laboratory reports and chain of custody forms from EMSL (Attachment C).

May 3, 2010

No personal air samples were collected on this day since no BNSF personnel were working within the work activity area. Steel, Etc. was on-site pulling spikes and plates from two tracks within the work area. Three fixed perimeter samples were collected and labeled stations #1 through #3 with sample IDs of 050310-1, 050310-2 and 050310-3. These samples were considered representative of conditions along the entire length of the work area.

May 4, 2010

One personal sample was collected from a BNSF employee that assisted in pickup of spikes and plates:

Tom Long

Loader Operator

BNSF Employee #4876306

Contractor personnel from Steel, Etc. and Patrick Construction were picking up spike and tie plate debris and placing the materials into the bucket of the BNSF loader. Contractor personnel were not sampled.

This work area extended between approximately MP 1341.19 and the east end terminus of 3rd Street in Libby, Montana (Figure 1). All personal air samples were submitted to EMSL for TEM analysis. Three fixed perimeter samples were collected labeled stations #1 through #3 with sample IDs of 050410-1, 050410-2 and 050410-3 (Table 1). These samples were considered representative of work activity conditions along the entire length of the work area.

A fourth stationary sample (050410-4) was collected from Station #2 while a BNSF work gang was conducting routine maintenance on the mainline adjacent to the track removal work area. Mainline maintenance consisted of surfacing that used two machines; a tamper and a ballast regulator/broom. Dust from the surfacing maintenance moved through the track removal work area and the sample was collected in order to separate the two maintenance activities, in the event that asbestos fibers were detected in any of the samples. The surfacing maintenance, in the vicinity of the track removal work area, lasted approximately 30 minutes.

May 5, 2010

One (1) personal sample was collected for Tom Long, BNSF Loader Operator during pulling of rail across the entire work area extending between approximately MP 1341.19 and the east end terminus of 3rd Street in Libby, Montana (Figure 1).

No stationary air samples were collected on this day since activities consisted of moving and loading of rail, there was no soil disturbance and heavy rainfall was occurring.

May 7, 2010

One (1) personal sample was collected for Tom Long, BNSF Loader Operator (see above) during tie removal and grading of track bed across the entire work area extending between approximately MP 1341.19 and the east end terminus of 3rd Street in Libby, Montana (Figure 1).

Three stationary samples were collected and labeled stations #3 through #5 with sample IDs of 050710-1, 050710-2 and 050710-3. These samples are considered representative of work activity conditions along the entire length of the work area. Station #5 had a malfunctioning generator; thus, the 050710-3 sample was not submitted for analysis.

Although a water truck was utilized, two samples were overloaded and had to be analyzed after indirect preparation. These samples corresponded to the personal sample P-3, and sample 050710-2 from Station #4.



Soil Observations

EMR observed soil conditions during tie removal and no visible vermiculite was observed in work area, except for a limited zone approximately 25' long by 8' wide (Figure 2). The location of the observed vermiculite appears to be adjacent to a soil removal project that occurred in November 2005. This project focused on the removal of vermiculite impacted soils from between the two wye tracks and south of the southern wye track (Figure 2). Soil was not removed from beneath the track since a four-point composite soil sample (BN-20006 - October 2005), did not indicate the presence of asbestos beneath the tracks. Records indicate that the sample BN-20006 is collocated with the vermiculite observed during the track removal.

SAMPLING RESULTS

The following is a discussion of the results of laboratory analysis of each sample type. Laboratory reports and chain-of-custody forms are found in Attachment C.

Personal Air Samples

A total of three (3) personal air samples were collected and submitted for TEM analysis. All samples were non-detect for asbestos fibers (Table 1). Of the three (3) samples, one sample (P-3) was indirectly prepared, which increased the analytical sensitivity above the target sensitivity (0.005 s/cc).

Stationary air Air Samples

A total of ten (10) stationary air samples were collected and nine (9) were analyzed (Table 1). All nine (9) samples showed no detectable concentrations of asbestos fibers. One (1) of the nine (9) samples was overloaded and read after indirect preparation but showed no detectable asbestos fibers (Table 1).

Blanks

A total of four field blanks were submitted for TEM analysis with instructions to test only if Libby Amphibole (LA) was detected on any of the personal or stationary air samples. Though no LA was detected, two samples from May 5, 2010 were analyzed. Both blank samples OB and SB showed no detectable structures (Table 1).

EMR sincerely appreciates the opportunity to assist you on this project. If you have any questions, please call either David L. Welch at (425) 861-4561, ext. 11 or me at (218) 625-2332.

Sincerely, EMR, Inc.,

Scott Carney PG, CHMM

Project Manager

C: D. Smith - BNSF

Att: **Tables** Attachment A - Project Photolog

> **Figures** Attachment B- Air Monitoring Data Sheets

> > Attachment C – EMSL Laboratory Reports and Chain of Custody Forms

11 E. Superior Street, Suite 260 ▼ Duluth, MN 55802 ▼ (218) 625-2332 ▼ FAX (218) 625-2337 ▼ www.emr-inc.com



TABLE 1 Air Data Summary Stimson Wye Track Removal Libby, Montana EMR Project Number 9329-001

Personal Air Sample Results

Sample ID	Date	Description	Activity	Asbestos Types	Result (s/cc)
P-1	5/4/2010	Tom Long, Loader Operator, BSNF # 4876306	Remove Spikes and Plates	Not detected	<0.0046
P-2	5/5/2010	Tom Long, Loader Operator, BSNF # 4876306	Remove Rail	Not detected	<0.0057
P-3*	5/7/2010	Tom Long, Loader Operator, BSNF # 4876306	Remove Ties/Grade Rail Bed	Not detected	<0.0210

^{*=}Sample overloaded; indirect preparation conducted.

Stationary Air Samples

Sample ID	Date	Description	Activity	Asbestos Types	Result (s/cc)
050310-1	5/3/2010	Property Boundary Sample Station #1	Remove Spikes and Plates	Not detected	< 0.0041
050310-2	5/3/2010	Property Boundary Sample Station #2	Remove Spikes and Plates	Not detected	< 0.0039
050310-3	5/3/2010	Property Boundary Sample Station #3	Remove Spikes and Plates	Not detected	< 0.0040
050410-1	5/4/2010	Property Boundary Sample Station #1	Remove Spikes and Plates	Not detected	< 0.0020
050410-2	5/4/2010	Property Boundary Sample Station #2	BNSF Maint on Mainline	Not detected	< 0.0050
050410-3	5/4/2010	Property Boundary Sample Station #3	Remove Spikes and Plates	Not detected	< 0.0019
050410-4	5/4/2010	Property Boundary Sample Station #2	Remove Spikes and Plates	Not detected	<0.0029
050710-1	5/7/2010	Property Boundary Sample Station #3	Remove Ties/Grade Rail Bed	Not detected	< 0.0019
050710-2*	5/7/2010	Property Boundary Sample Station #4	Remove Ties/Grade Rail Bed	Not detected	<0.0080
050710-3	5/7/2010	Property Boundary Sample Station #5	Remove Ties/Grade Rail Bed	NA	NA

NA-Not Available; generator malfunction; sample voided.

QA/QC Blanks

Sample ID	Date	Description	Activity	Asbestos Types	Result (s/cc)
SB	5/5/2010	Sealed Blank	Remove Rail	Not detected	<0.0057
OB	5/5/2010	Open Blank	Remove Rail	Not detected	<0.0057
SB	5/7/2010	Sealed Blank	Remove Ties/Grade Rail Bed	Not Analyzed	Not Analyzed
OB	5/7/2010	Open Blank	Remove Ties/Grade Rail Bed	Not Analyzed	Not Analyzed

^{*=}Sample overloaded; indirect preparation conducted.



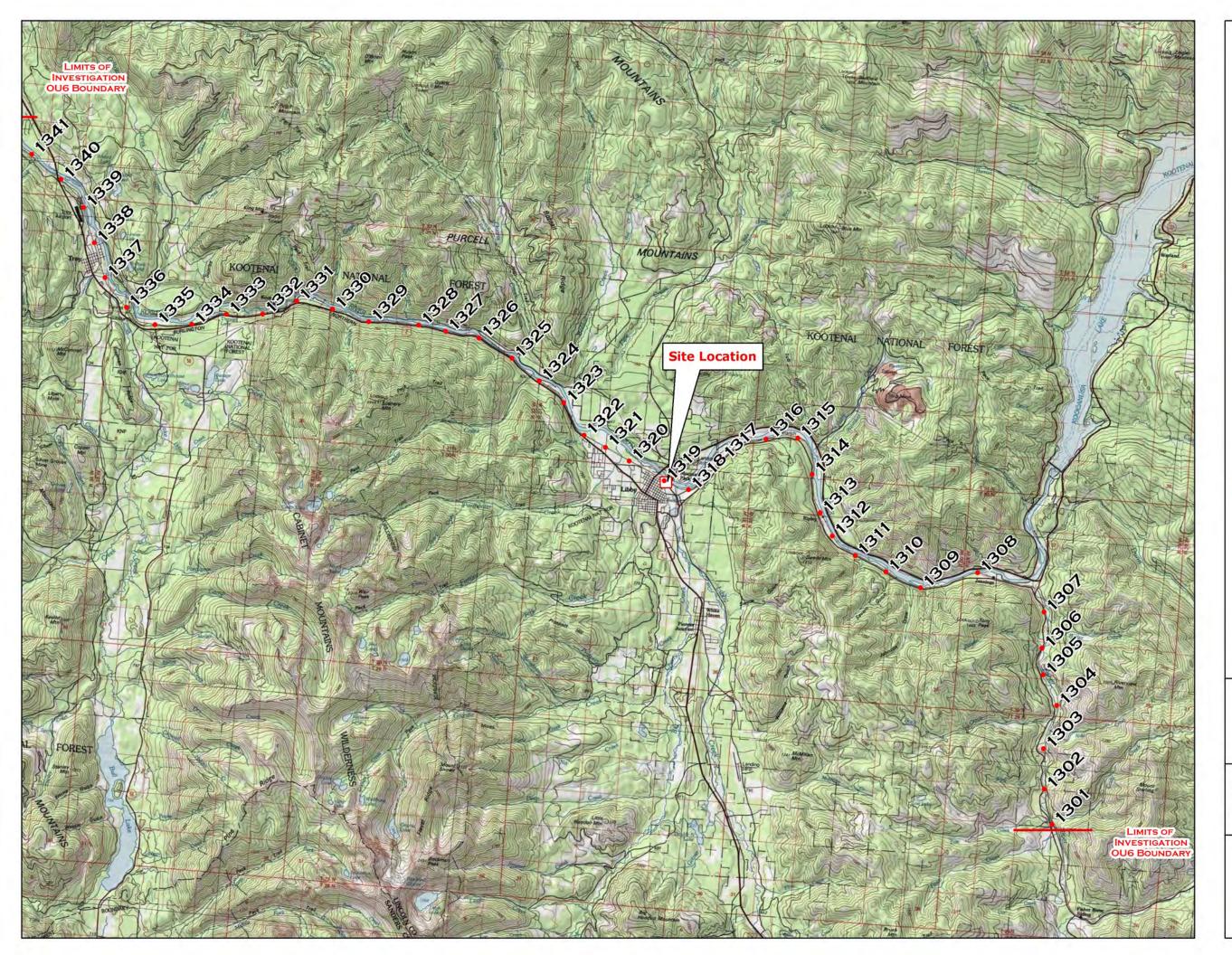




Figure 1 Site Location Topographic Map

EPA Operable Unit 6 BNSF Kootenai River Sub Stimson Wye MP 1319.41 to East End 3rd Street Terminus Libby, MT

BNSF Asbestos Exposure Sampling Report

Legend

Approximate Milepost Locations

6,250 12,500

25,000

Scale In Feet

Project Number: 9329-001 Date: July 28, 2010 Drafted By: AJL Reviewed By: SJC Reference: ESRI World Imagery



11 E. Superior St. Suite #260 Duluth, MN 55802 Phone: 218.625.2332 Fax:218.625.2337







Air Stations #1 (r) and #2 (l)



Air Station #3 off chain link fence







Contractor gang removing spikes and plates



View looking South around curve toward Stimson Lumber, both track structures were removed





BNSF OSHA Exposure Monitoring Report Kootenai River Sub: Stimson Wye MP 1319.41 to East End 3rd Street Terminus, Libby, MT

PHOTOLOG (Page 1 of 3)





BNSF maintenance activity on mainline, unrelated to Stimson Wye work (May 4, 2010)





View looking north from 3rd Street





BNSF Loader Operator Tom Long in background, track removed prior to tie removal



Air Station #5 on S. Side of Pond (generator failed)





BNSF OSHA Exposure Monitoring Report Kootenai River Sub: Stimson Wye MP 1319.41 to East End 3rd Street Terminus, Libby, MT

PHOTOLOG (Page 2 of 3)





BNSF operator Tom Long removing ties (May 7, 2010)



Water Truck use for dust control (May 7, 2010)







BNSF Loader Operator Tom Long grading following tie removal



Discovered hot spot of visible vermiculite on removed track area as noted.





BNSF OSHA Exposure Monitoring Report Kootenai River Sub: Stimson Wye MP 1319.41 to East End 3rd Street Terminus, Libby, MT

PHOTOLOG (Page 3 of 3)



Date: 5-4 through 5-7-2010 Work Area Mileposts: Libby Stimson Wye

Compled Doggon's Name	Tom Long	4 May 10
Sampled Person's Name:	Tom Long 4876306	4-May-10
BNSF Employee ID		
Job Title	Loader/Operator Front End Loader	
Machine Type/Name	Front End Loader	
Pump Number	#1	
Sample #	P-1	
Starting Flow Rate	3.2	
Sample Start Time	8:20	
Ending Flow Rate	3.2	
Sample End Time	16:40	
Sample Volume	1600 liters	
Sampled Person's Name:	Tom Long	5-May-10
BNSF Employee ID	4876306	
Job Title	Loader/Operator	
Machine Type/Name	Front End Loader	
Pump Number	#2	
Sample #	P-2	
Starting Flow Rate	2.8	
Sample Start Time	9:28	
	7.20	
Ending Flow Rate	2.6	
Sample End Time	12:05	
Sample Volume	424 liters	
		# M 10
Sampled Person's Name:	Tom Long 4876306	7-May-10
BNSF Employee ID Job Title		
job iitie	Loader/Operator	
	Enough End Loodon	
Machine Type/Name	Front End Loader	
	Front End Loader #4	
Machine Type/Name Pump Number Sample #	#4 P-3	
Machine Type/Name Pump Number Sample # Starting Flow Rate	#4 P-3 2.5	
Machine Type/Name Pump Number Sample #	#4 P-3	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	#4 P-3 2.5 7:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	#4 P-3 2.5 7:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	#4 P-3 2.5 7:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name:	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	#4 P-3 2.5 7:45 2.3 16:45	
Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	#4 P-3 2.5 7:45 2.3 16:45	

Date: 5/3/2010 Work Area Mileposts: Stimson Wye

Approx MP of Sample I	Locat	ion	1319.41	
GPS Coords	N		(UTM 5361083)	W
Receptor Present?	Y	/	N If yes then describe:	
Samples Downwind?	\mathbf{Y}	/	N If no explain why:	
Pump Number			#1	
Sample #			050310-1	
Starting Flow Rate			7.7	
Sample Start Time			1300 hrs	
Ending Flow Rate			7.5	
Sample End Time			1700	
Sample Volume			1824 liters	
Approx MP of Sample I	Locat	ion	1319.41	
GPS Coords	N		(UTM 5369071)	W
Receptor Present	Y	/	N If yes then describe:	
Samples Downwind?	\mathbf{Y}	/	N If no explain why:	
Pump Number			#2	
Sample #			050310-2	
Starting Flow Rate			8.0	
Sample Start Time			1305	
Ending Flow Rate			7.8	
Sample End Time			1705	
Sample Volume			1896 liters	
		•	1319.41	
Approx MP of Sample I GPS Coords	Locat N	ion	(UTM 53691032)	W
	Y	/		VV
Receptor Present	_		N If yes then describe:	
Samples Downwind?	Y	/	N If no explain why:	
Pump Number			#3	
Sample #			050310-3	
Starting Flow Rate			7.8	
Sample Start Time			1310	
Ending Flow Rate			7.6	
Sample End Time			1710	
Sample Volume			1848 liters	

Tracks being removed are OLD, date range of 1901--1913. No personal samples today as there are no BNSF personnel working in area.

Notes:

Date: 5/4/2010 Work Area Mileposts: Stimson Wye

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Approx MP of Sample I	Locat	ion	1319.41	
GPS Coords	N		(UTM 5361083)	W
Receptor Present?	Y	/	N If yes then describe:	
Samples Downwind?	\mathbf{Y}	/	N If no explain why:	
Pump Number			#1	
Sample #			050410-1	
Starting Flow Rate			7.5	
Sample Start Time			0830 hrs	
Ending Flow Rate			7.5	
Sample End Time			1640	
Sample Volume			3626 Liters	
Approx MP of Sample I	Locat	ion	1319.41	
GPS Coords	N	1011	(UTM 5369071)	W
Receptor Present	Y	/	N If yes then describe:	
Samples Downwind?	\mathbf{Y}	/	N If no explain why:	
Pump Number			#2	
Sample #			050410-2	
Starting Flow Rate			7.8	
Sample Start Time			0835 hrs	
Ending Flow Rate			7.6	
Sample End Time	-		1110	
Sample Volume			1193.5 Liters	
Approx MP of Sample I	Locat	ion	1319.41	
GPS Coords	N		(UTM 53691032)	W
Receptor Present	Y	/	N If yes then describe:	
Samples Downwind?	\mathbf{Y}	/	N If no explain why:	
Pump Number			#3	
Sample #			050410-3	
Starting Flow Rate			8.0	
Sample Start Time			1840	
Ending Flow Rate			7.8	
Sample End Time			1655	
Sample Volume			3910.5 liters	
-				

Notes: Note: Sample 050510-2 prior to and during BNSF Maintenance Work (ballast sweeping) on mainline. Sample 050510-4 is after completion of BNSF Maintenance Work on mainline.

Date: 5/4/2010 Work Area Mileposts: Stimson Wye

Approx MP of Sample I	Locat	ion	1319.41	
GPS Coords	N		(UTM 5361083)	W
Receptor Present?	Y	/	N If yes then describe:	
Samples Downwind?	\mathbf{Y}	/	N If no explain why:	
Pump Number			#2	
Sample #			050410-4	
Starting Flow Rate			7.8	
Sample Start Time			1110	
Ending Flow Rate			7.6	
Sample End Time			1640	
Sample Volume			2541 liters	
Approx MP of Sample I	ocat	ion		
GPS Coords	N	1011		W
Receptor Present	Y	/	N If yes then describe:	
Samples Downwind?	Y	/	N If no explain why:	
Pump Number			I J .	
Sample #				_
Starting Flow Rate				
Sample Start Time				
Ending Flow Rate				
Sample End Time				
Sample Volume				
Approx MP of Sample I	Locat	ion		
GPS Coords	N			W
Receptor Present	Y	/	N If yes then describe:	
Samples Downwind?	Y	/	N If no explain why:	
Pump Number				
Sample #				
Starting Flow Rate				
Sample Start Time				
Ending Flow Rate				
Sample End Time				
Sample Volume				

Notes:

Note: Sample 050510-2 prior to and during BNSF Maintenance Work (ballast sweeping) on mainline. Sample 050510-4 is after completion of BNSF Maintenance Work on mainline.

Date: 5/7/2010 Work Area Mileposts: Stimson Wye

Date: 3/1/2010			WOIK AIC	ea Mileposis:	Sumson wye	
Approx MP of Sample I	Locat	ion	1319.41			
GPS Coords	N		(UTM 5361032)	W		
Receptor Present?	Y	/	N If yes then describe:			
Samples Downwind?	Y	/	N If no explain why:			
Pump Number			#1			
Sample #			050710-1			
Starting Flow Rate			8.5			
Sample Start Time			845			
Ending Flow Rate			8.1			
Sample End Time			1635			
Sample Volume			3901 liters			
Approx MP of Sample I	Locat	ion	1319.41			
GPS Coords	N		(UTM 5360993)	W		
Receptor Present	Y	/	N If yes then describe:			
Samples Downwind?	Y	/	N If no explain why:			
Pump Number			#2			
Sample #			050710-2			
Starting Flow Rate			8.0			
Sample Start Time			1305			
Ending Flow Rate			7.8			
Sample End Time			1705			
Sample Volume			1896 liters			
Approx MP of Sample I	Locat	ion	1319.41			
GPS Coords	N		(UTM 5360913)	W		
Receptor Present	Y	/	N If yes then describe:			
Samples Downwind?	\mathbf{Y}	/	N If no explain why:			
Pump Number			#3			
Sample #			050710-3 (See below 1	note)		
Starting Flow Rate			NA			
Sample Start Time			NA			
Ending Flow Rate			<i>NA</i>			
Sample End Time			NA			
Sample Volume			NA			

Sample #050710-3 void because of generator malfunction.

Notes:



INTERNAL CHAIN OF CUSTODY

5/5/2010 1:25:45 PM

Order ID: 271000179

Attn:

Fax:

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

Phone: (218) 625-2332

9329-002

Samples collected 5/3,4,5/2010

Customer ID:

Customer PO:

Received:

05/05/10 12:45 PM

EMRI78

EMSL Order: EMSL Proj ID:

271000179 **BNSF 2010**

Cust COC ID

Test: TEM AHERA	<u>Matrix</u> Air	<u>TAT:</u> 2 W	eek	Qty:	11
Acct Sts: BillingFrequency:	Slsprsn: rdemalo	Sample Condition:	scador Acceptable Unacceptable	Date: 5	5/5/2010
☐ Exempt from prep charge ☐ Exempt from lab opening ☐ Exempt from layer/aliquo Special Instructions	fee	Prepped: Analyzed: Data Entry: Screened: Mailed:	p p	Date: Date: Date: Date:	15/0 5/1/10

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000179	271000179-0001	050310-1 (RS)		
271000179	271000179-0002	050310-2		5/19/2010 12:45:00 PM
271000179	271000179-0003	050310-3		5/19/2010 12:45:00 PM
271000179	271000179-0004			5/19/2010 12:45:00 PM
271000179		050410-1		5/19/2010 12:45:00 PM
	271000179-0005	050410-2		5/19/2010 12:45:00 PM
271000179	271000179-0006	050410-3		5/19/2010 12:45:00 PM
271000179	271000179-0007	050410-4		5/19/2010 12:45:00 PM
271000179	271000179-0008	P1		•
271000179	271000179-0009	P2		5/19/2010 12:45:00 PM
271000179	271000179-0010	· -		5/19/2010 12:45:00 PM
271000179		SB		5/19/2010 12:45:00 PM
21 1000179	271000179-0011	ОВ		5/19/2010 12:45:00 PM

2710-EMIL-19 (C-F) 2710-EMIL-ARC-20 (E-F)



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000179

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Street: 17 E. Superior Street, Suite #260 City: Duluth State/Province: MN Zip/Postal Code: \$5802 Country: USA Report To (Name): Scott Carney Fax #: (218) 625-2337 Femail Address: carney@emr-inc.com Fleephone #: (218) 625-2332 x 303 Project Name/Number: 9329-002 Please Provide Results:	Company : EMR, Inc			EMSL-Bill to: Same Different						
Country: USA Country: USA Report To (Name): Scott Carney Fax #: (218) 625-2337 Country: USA Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2332 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2322 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2322 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2322 x 303 Email Address: carney@emr-inc.com Fax #: (218) 625-2322 x 303			t, Suite	#260		If Bill to is Different note instructions in Comments**				
Report To (Name): Scott Carney			.,		Province: MN	7:n/D-	nird Party Billi	ing requires written a	_ I	
Telephone #: (218) 625-2332 x 303	Report To (Name):	Scott C	arnev	_ Graton	TOTHICE. MIN				untry: USA	
Project Name/Number: 9329-002 Please Provide Results: Fax Email Purchase Order: U.S. State Samples Taken: Montana Turnaround Time (TAT) Options* - Please Check Turnaround Time (Tat) Turnaround Time (Tat						1				
Please Provide Results:						Email /	Address: c	arney@emr-inc.c	om	
Sample Sample Turnsround Time (TAT) Options* - Please Check Sample	Please Provide Res	sults:		⊠ Email	Purchase Order	·:		II C State Come	. T.	
Pot				Turn	around Time (TAT)		* - Please C	Check	ies ia	Ken: Montana
an authorization form for this service. Analysis completed in accordance with EMSL's Terma of EASL and Conditions Isociated in the Analysis Price Guide NIOSH 7400	*For TEM Air 3 hours/6	6 Hour	250 00# 04	24 Hour	J 70 Harr	N 70			1 Wed	ek
NIOSH 7400	an authorization	form for th	ase can an nis service	. Analysis	equie.^I here is a premiur completed in accordance	m charge f with EMS	for 3 Hour TEM SL's Terms and	AHERA or EPA Level	II TAT.	You will be asked to sign
MICSH 7400					<u>1EM ~ AIr</u>	ohr IAT	(AHERA only)	TEM- Dust	ine Ana	iyilcal Price Guide.
NIOSH 7402					AHERA 40 CFF	R, Part 76	63		ASTN	1 D 5755
PLM EPA 600/R-93/116 (<1%)								1		
PLM EPA NOB (<1%) ISM - Bulk PLM CARB 435 - A (0.25% sensitivity) PLM CARB 435 - A (0.25% sensitivity) Point Count TEM - Bulk PLM CARB 435 - B (0.1% sensitivity) TEM CA			40/1					☐ Carpet So	nicatio	n (EPA 600/J-93/167)
Point Count 400 (<0.25%) 1000 (<0.1%) PLM CARB 435 - A (0.25% sensitivity) PLM CARB 435 - B (0.1% sensitivity) PLM CARB 435 - B (0.1% sensitivity) TEM CARB 435 - B (0.1% sensitivity) TEM CARB 435 - C (0.01% sensitivity) TeM CARB 435 - B (0.1% sensitivity) TeM CARB 435 - B (0.			1%)					Soil/Rock/Ve	rmicu	lite
400 (<0.25%) 1000 (<0.1%) NYS NOB 198.4 (non-friable-NY) TEM CARB 435 - B (0.1% sensitivity) TeM C		1 70)		ĺ					3 435	- A (0.25% sensitivity)
Point Count w/Gravimetric Chaffield SOP Chaffield SOP TEM CARB 435 - B (0.1% sensitivity) 400 (<0.25%) 1000 (<0.1%) TEM CARB 435 - C (0.01% sensitivity) TEM Mass Analysis-EPA 600 sec. 2.5 TEM Protocol (Semi-Quantitative) NYS 198.1 (friable in NY) TEM Waster EPA 100.2 EPA Protocol (Quantitative) NYS 198.6 NOB (non-friable-NY) Fiber Sizes Waster Drinking All Fiber Sizes Drinking All Fiber Sizes Waster Drinking All Fiber Sizes Drinking A				Inon frie	skie NOO		3 435	- B (0.1% sensitivity)		
□ 40 (<0.25%) □ 1000 (<0.1%) □ NYS 198.1 (friable in NY) □ NYS 198.1 (friable in NY) □ NYS 198.6 NOB (non-friable-NY) □ NIOSH 9002 (<1%) □ Check For Positive Stop - Clearly Identify Homogenous Group Samplers Name: □ AVIO WECH - EMR Samplers Signature: □ 18 74 1; t 5-3-/0 So 310-□ PERIMETEN STATULY # 1 18 74 1; t 5-3-/0 □ 50310-□ PERIMETEN STATULY # 3 18 48 1; t 5-3-/0 □ 50410-□ PERIMETEN STATULY # 3 18 48 1; t 5-3-/0 □ 509410-□ PERIMETEN STATULY # 3 3 6 24 1; t 5-4-/0 □ 509410-□ PERIMETEN STATULY # 3 3 9 1 1; t 5-4-/0 □ 509410-□ PERIMETEN STATULY # 3 3 9 1 1; t 5-4-/0 □ 509410-□ PERIMETEN STATULY # 3 3 9 1 1; t 5-4-/0 □ 509410-□ PERIMETEN STATULY # 3 3 9 1 1; t 5-4-/0 □ 509410-□ PERIMETEN STATULY # 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date O		☐ Chatfield SOP	(non-ina	able-NY)	I IEM CARE	3 435	- B (0.1% sensitivity)		
NYS 198.1 (friable in NY) TEM - Water: EPA 100.2 GepA Protocol (Quantitative) NYS 198.6 NOB (non-friable-NY) Fibers > 10µm Waste Drinking Other: Check For Positive Stop - Clearly Identify Homogenous Group			.1%)			/sis-FPA	600 sec 2 5			
NYS 198.6 NOB (non-friable-NY)										
NIOSH 9002 (<1%) All Fiber Sizes Waste Drinking Check For Positive Stop - Clearly Identify Homogenous Group	☐ NYS 198.6 NOB (non-friab	ole-NY)	I	· · · · · · · · · · · · · · · · · · ·		Drinking		coi (Qi	daniidalive)
Samplers Name: AVID WELCH - EMR Samplers Signature: Volume/Afea (Air) Date/Time Sample # Sample Description Volume/Afea (Air) Date/Time Sampled 0.50310-1 PERIMETER STATION # / 1874 1:t 5-3-10 0.50310-2 PERIMETER STATION # 3 1896 1:t 5-3-10 0.50310-3 PERIMETER STATION # 3 1848 1:t 5-3-10 0.50410-1 PERIMETER STATION # 4 / 3626 1:t 5-4-10 0.50410-2 PERIMETER STATION # 4 / 3626 1:t 5-4-10 0.50410-3 PERIMETER STATION # 3 3911 1:t 5-4-10 0.50410-4 PERIMETER STATION # 3 3911 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2541 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2 2541 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2 2541 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	□ NIOSH 9002 (<19)					Waste [Drinking			
Samplers Name: AVID WELCH - EMR Samplers Signature: Volume/Afea (Air) Date/Time Sample # Sample Description Volume/Afea (Air) Date/Time Sampled 0.50310-1 PERIMETER STATION # / 1874 1:t 5-3-10 0.50310-2 PERIMETER STATION # 3 1896 1:t 5-3-10 0.50310-3 PERIMETER STATION # 3 1848 1:t 5-3-10 0.50410-1 PERIMETER STATION # 4 / 3626 1:t 5-4-10 0.50410-2 PERIMETER STATION # 4 / 3626 1:t 5-4-10 0.50410-3 PERIMETER STATION # 3 3911 1:t 5-4-10 0.50410-4 PERIMETER STATION # 3 3911 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2541 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2 2541 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2 2541 1:t 5-4-10 0.50410-4 PERIMETER STATION # 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			_ Chec	k For Po	sitive Stop – Clea	arly Ide	ntify Homo	genous Group		
Sample Description	Samplers Name:	PAV	10	WEL	CH-EMR	Sample	rs Signatur	e: J	1	16/1
050310-1 PERIMETER STATION # / 1824 1;t 5-3-10 050310-2 PERIMETER STATION # 2 1896 1;t 5-3-10 050310-3 PERIMETER STATION # 3 1848 Lit 5-3-10 050410-1 PERIMETER STATION # / 3626 Lit 5-4-10 050410-2 ** PERIMETER STATION # 2 1194 Lit 5-4-10 050410-3 PERIMETER STATION # 3 3911 Lit 5-4-10 050410-4 PERIMETER STATION # 2 2541 Lit 5-4-10 P1 PERSONAL-TOM LONG-LOADER OPERATOR 1600 Lit 5-4-10 Client Sample # (s): Total # of Samples: Relinquished (Client): + 2 2 245	Sample #			s	ample Description					
1896 1:t 5-3-10 1896 1:t 5-4-10 1896 1	050310-1		PERIN	ne ten	57A71UH F	1/				
1848 Lit 5-3-10 1850410-1 PERIMETER STATION # 3 1848 Lit 5-3-10 3626 Lit 5-4-10 3670410-2 ** PERIMETER STATION # 2 194 Lit 5-4-10 3911 Lit 5-4-10 3911 Lit 5-4-10 PERIMETER STATION # 2 2541 Lit 5-4-10 PI PERSONAL-TOM LONG-LOADER OPERATOR 1600 Lit 5-4-10 Client Sample # (s): Total # of Samples: Relinquished (Client): ** Color of Samples: Time: 1245	050310-2		PERIN	nETER	57AT7 . LE STATE	2			, ,	
050410-2 ** Pilimeten STATILI 2 1194 Lit 5-4-10 050410-3 PERIMETEN STATILI # 3 3911 Lit 5-4-10 050410-4 PERIMETEN STATILI # 2 2541 Lit 5-4-10 PI PERSOHAL-TOM LOHG-LOADEN OPERATOR 1600 Lit 5-4-10 Client Sample # (s): Relinquished (Client): + Date: 5-5-10 Time: 1245	050310-3		ERIW	ETER	STATION H	3		1848 (
194 Lit 5-4-10 196 Limeter STATILE # 3 3911 Lit 5-4-10 1950410-4 PERIMETER STATILE # 3 3911 Lit 5-4-10 2541 Lit 5-4-10 1910	050410-1	Pe	ERIM	ETEN	STATE + # 1			36261	it	5-4-10
950410-4 PERIMETER SIMPLET 12541 LIT 5-4-10 P1 PERSOHAR-TOM LOHG-LOADER OPERATOR 1600 Lit 5-4-10 Client Sample # (s): Relinquished (Client): 1245	,	PE	RIME.	TEN 51	MA # 2			1194 L	it	5-4-10
PI PERSOHAN - TOM LONG - LOADEN OPERATOR 1600 Lit 5-4-10 Client Sample # (s): Relinquished (Client): Date: 5-5-10 Time: 1245		PER	IME	マルケノ	ATT-12 # 3			3911 G	t	5-4-10
Client Sample # (s): Relinquished (Client): Date: 5-5-10 Time: 1245									4	5-4-10
Relinquished (Client): Date: 5-5-10 Time: 1245		PERS	POHAL	-Ton	n Lorl G-LOA	DER OF	PERATOR	1600 L	it	5-4-10
Time: 1245					·			Total # of Samp	les:	
Comments/Special Instructions: * PULLED SAMPLE EARLY BECAUSE OF SWEEPER ACTIVITY OH MAINLINE			5	TW.	Date:	5-5	-10		Time:	1245
OH MAINLINE	Received (Lab): Kuller (Lab): Kuller (Lab): Comments/Special Ins	etruction	USU *	MO F	MSL Date: 5	-5-	10		Time:	1245
		لم ه	mA,	HLINE	en sample (SHILL	BECAUS	e of swi	EFFE	or ACTIVITY



	Number (Lab Use Only):
-mol Order	(Lab Use Only):

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P2	PERSONAL-Tom Lotte DERAFOR	F12 1:1	5-5-10
5B** 0B**	PERSONAL-TOM LONG COAPER TOOS BA ZEFON LOT & SERVED BLANK 18589 TOOS BA OPEN BLANK 11	_	5-5-10
0B**	OPEN BLANK 11		5-5-10
*Comments/Special Ir	structions		
	AMP IN BOLE AMP IN BOLE		



EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Fax.

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

Phone: (218) 625-2332

Project: 9329-002

Fax:

Samples collected 5/3,4,5/2010

Customer ID:

Customer PO:

Received:

05/05/10 12:45 PM

EMSL Order:

271000179

EMRI78

EMSL Proj:

Analysis Date:

BNSF 2010 5/11/2010

Sampling Date:

5/5/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

		The state of the part E												
Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structur ≥ 0.5µ < 5µ	es ≥5µ	Analytical Sensitivity (S/cc)		estos atration (S/cc)				
050310-1 <i>271000179-0001</i>		1824.00	0.0520		None Dete	cted		0.0041	<19.00	<0.0041				
050310-2 <i>271000179-0002</i>		1896.00	0.0520		None Dete	cted		0.0039	<19.00	<0.0039				
050310-3 <i>271000179-0003</i>		1848.00	0.0520		None Dete	cted		0.0040	<19.00	<0.0040				
050410-1 271000179-0004		3626.00	0.0520		None Dete	oted		0.0020	<19.00	<0.0020				
050410-2 271000179-0005		1194.00	0.0650		None Detec	eted		0.0050	<15.00	<0.0050				
050410-3 271000179-0006		3911.00	0.0520	<u> </u>	None Detec	eted		0.0019	<19.00	<0.0019				
050410-4 271000179-0007		2541.00	0.0520		None Detec	ted		0.0029	<19.00	<0.0029				
P1 271000179-0008		1600.00	0.0520		None Detec	ted		0.0046	<19.00	<0.0046				
22 71000179-0009		518.00	0.1300		None Detec	ted		0.0057	<7.70	<0.0057				
SB 71000179-0010			0.1300		None Detec	ied			<7.70	<u> </u>				

Analyst(s)

Roy Pescador (11)

R.K. Mahoney

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

Project: 9329-002

Fax:

Samples collected 5/3,4,5/2010

Phone: (218) 625-2332

EMSL Proj:

Customer ID:

Customer PO:

EMSL Order:

Received:

BNSF 2010

271000179

EMRI78

05/05/10 12:45 PM

Analysis Date:

5/11/2010

Sampling Date:

5/5/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

		,	···········	00 7	phenny	A to Sub	part i	5		
Sample	Location	Volum		Non	Asbestos	# Structui	res	Analytical Sensitivity	Asbe. Concent	-
		(Liter:	s) (mm²)	Asb	Type(s)	$\geq 0.5\mu < 5\mu$	≥5 <i>µ</i>	(S/cc)	(S/mm²)	(S/cc)
OB <i>271000179-0011</i>			0.1300		None Dete	ected			<7.70	(Bree)

Analyst(s)

Roy Pescador (11)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without writen approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

Clier	nt: EM	′1000179-0(⁄IR, Inc.				L	der ID		000179]		d: 05-May-10 : 2 Week	
	Su Du ct: BN	East Super lite 260 lluth, MN 55			;	Sample IE Locatior		0-1			Results Due Wednesday, May 19, 2010 12:45 PM		
		29-002 imples colle	cted 5/3,4,5	5/2010				<u>Spe</u>	ecial Instruct	tions			
<u> </u>			NSD = No S	Structures	Detected	Structure	Types: {	F = Fiber,	B = Bundle,	C = Cluster.	M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D RVATION Amphi	Sketch		NGTH 	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
ļ	C4	ND								FBCM			
	C2	No		ļ						FBCM			
2	C8	ND	! 	<u> </u>						FBCM			
	40	ND								FBCM			
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					1/2/					F B C M			
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										F B C M			
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										FBCM			
$-\!$	_						7			ВСМ			
										ВСМ			
										ВСМ			
(Total)		0			2				rakri ji kappagi A				
Chi Ant Am Cro Acti	os Fibrosotile hophylosite cidolite nolite molite	lite		N]]]]]	(1) G (2) G (3) C (4) O (5) Fil	Filter EFA Filter Sa Grid	r Type: MCE r Size (mm): (sq.mm): 38: Pore Size (n mple Volum I Box # 27/	25 5 nicron): 0.45 ne (L):	Grid O Grid O GO 1824 C				
									er Accepted o, reason fo			es 🗌 No 🖫	
nalyst .	R.	Preson Ool			Scope _	27-2			5/11/10	rejection:		·	

		1000179 <i>-</i> 0(//R, Inc.	J02			Ore	der ID	2710	000179			d: 05-May-10
	Su Du ct: BN	East Super ite 260 lluth, MN 55 NSF 2010			\$	Sample ID Location		0-2			<u>Re</u> <u>Wednesd</u>	: 2 Week esults Due lay, May 19, 2010 12:45 PM
		29-002 Imples colle	cted 5/3,4,5	5/2010				Spe	ecial Instruc	tions		
			NSD = No S	tructures	Detected	Structure	Types: {	F = Fiber,	B = Bundle,	C = Cluster	, M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch		NGTH	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	48			ļ						FBCM		
	HIO									FBCM		
2	H3									FBCM		
	HI									FBCM		
										FBCM		
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(Total)		Ø		W	200 1 1		\		<u>, , , , , , , , , , , , , , , , , , , </u>	- BOW		
Asbes	os Fib	ers Present	_	N	onasbes	tos Fibers	Present	Filte	er Type: MC			vata, e i i i i i i i i i i i i i i i i i i
Ant Am Cro	rysotile hophy osite cidolite inolite molite	llite			l I I (3) Cellulose				Filter Size (mm): 25 Magnification (X): 19K EFA (sq.mm): 385 Grid Opening Area: mm² Filter Pore Size (micron): 0.45 Sample Volume (L): 1896 GO Analyzed: 4 Grid Box # 1710 tmk-19 Row Column 3,4			
nalyst .	R	PES CAD ON			Scope _	27-2		lf n	o, reason fo			es No

Lab ID: 271000179-0002

Clies		1000179-00	003			Or	der ID	2710	000179]	Receive	d: 05-May-10
		/IR, Inc. East Super	rior Stroot			Sample ID	: 050310	0-3]		: 2 Week
	Şu Du	Last Super lite 260 lluth, MN 55				Location					Wednesd	esults Due lay, May 19, 2010 12:45 PM
	93	29-002	ected 5/3,4,5	5/2010				<u>Spe</u>	ecial Instruc	tions		2
		<u> </u>	NSD = No S			Structure	Types: {	F = Fiber,	B = Bundle,	C = Cluster,	M = Matrix)	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	LE i ≥ 0.5 μm < 5 μm	NGTH ≥5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
μ_	67	NO								FBCM		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	cg_	No								FBCM		
2	G8	No								FBCM		
	G10	NO								FBCM		
										FBCM		
										FBCM		
										FBCM	·	:
										FBCM		•
										FBCM		
										FBCM		
										FBCM		
			-		THO WAS					FBCM		
					X					FBCM		
										FBCM		
										FBCM		
										FBCM		
							$\overline{}$			FBCM		
										FBCM		
(Total)		0		5 m					en en en			· ·
Asbes	tos Fit	ers Present	t	N	onasbes	tos Fibers	Present	Filte	er Type; MCI	· ··· · · · · · · · · · · · · · · · ·	the School to an area with a school with the	was a sanda sa sa san sa s
An Arr	rysotile thophy osite ocidolit inolite molite	llite e			(1) G (2) G (3) C (4) O	ypsum	ers	Filte EFA Filte Sa Grid	r Size (mm): 38 r Pore Size (ample Volur d Box # #	25 micron): <u>0.4</u> : me (L):	Grid C 5 GC 1848	agnification (X): 19K Opening Area: mm² ORequired: 4 GO Analyzed: 4 Column
nalyst	R. F	ELEADON			Scope .	27-2			er Accepted o, reason fo	=		es No

		71000179-00 MR, Inc.	004			Or	der ID	2710	000179]		ed: 05-May-10
Addre	Sı	l East Super uite 260 uluth, MN 55			\$	Sample ID Location		0-1		_	<u>Wedneso</u>	Cesults Due
Proje	93	NSF 2010 329-002 amples colle	ected 5/3,4,5	5/2010				<u>Spe</u>	ecial Instruc	tions		12:45 PM
			NSD = No S	Structures	Detected	Structure	Types: {	F = Fiber	B = Bundle	C = Cluster	, M = Matrix	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	ED RVATION Amphi	Sketch		NGTH	WIDTH	Structure Type	SAED Negative	EDXA
ì	34	ND		1			, , , , , , , , , , , , , , , , , , ,	2 5 µm	μιιι	FBCM	Number	Chrys.,Amo., Etc.
	1110	No						 		FBCM		
2	47	NO						<u></u>		FBCM		
	HØ	NP						 		FBCM		
								<u> </u>		FBCM		
									<u> </u>	FBCM		:
										FBCM		
										FBCM		
										FBCM		
										FBCM		
			X	14						FBCM		
				W.						FBCM		
										FBCM		
										FBCM		
					7					FBCM		
										FBCM		
						7				FBCM		
										FBCM		
(Total)		0				y			S. H. STY		7	
Asbes	tos Fil	pers Presen	t	N	lonasbes	tos Fibers	Present	Filte	r Type: MC	E	on an adding a grant and a	EM Voltage (kv): 100
An An Cro	rysotil thophy nosite ocidoli	/llite te			(2) G (3) Co (4) Oo	ellulose rganic Fib		Filte EFA Filte	r Size (mm)	: 25 85 (micron): 0.4	Ma	agnification (X): 19K Depening Area: mm² D Required: 4 GO Analyzed: 7
Tre	tinolite emolite	•				bers Cont	aining 	Gri Filt If n	d Box # 22 er Accepte o, reason f	Ho- ENLK d for Analys or rejection	rig Row	
nalyst	<u> </u>	ISUADOR			Scope _	27-2		لد Date	11/10			

Clier Addres	nt: EM Su Du oct: BM 93	AR, Inc. East Superite 260 sluth, MN 55 NSF 2010 29-002 simples colle	rior Street	5/2010	ures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster							d: 05-May-10 : 2 Week esults Due day, May 19, 2010 12:45 PM	
			NSD = No S	tructure	s Detected	Structure	Types: / I	F = Fiher	R = Rundlo	C = Chiatar	14 - 14-4-		
					ED	1		NGTH	WIDTH	Structure	M = Mathx)	EDXA	
Grid I.D.	G.O.	Structure	Non	1	RVATION	_	≥ 0.5 µm		"""	Type	Negative	EDAA	
1.0.	I.D.	Number	Asbestos	Chry	s Amphi	Sketch	< 5 µm	≥5 µm	μm		Number	Chrys.,Amo., Etc.	
#	H6	NB		<u> </u>	ļ <u> </u>	<u> </u>				FBCM			
	48	ND								FBCM			
<u></u>	HID	NO								FBCM			
2	144	NO								FBCM	-		
	H2	NO								FBCM			
1										FBCM			
	/									FBCM			
										FBCM			
										FBCM			
										FBCM		:	
				W.					-	FBCM			
				Zlo					-	FBCM			
				1									
										FBCM			
										FBCM			
				-						FBCM			
-	_					$\overline{}$				FBCM			
							$\overline{}$			FBCM	_		
(Total)	_					(V.) 1 . 54	\rightarrow		8.000 Table 1	FBCM			
(Total)		Ø Presen			oddinokas), Militaria in constituis			danata	· ··· · · · · · · · · · · · · · · · ·		×4	
Che An	rysotile thophy nosite ocidolit tinolite	e Illite e	i.		Nonasbestos Fibers Present (1) Gypsum (2) Glass (3) Cellulose (4) Organic Fibers (5) Fibers Containing				Filter Size (mm): 25 Magnification (X): 19K EFA (sq.mm): 385 Grid Opening Area: mm² Filter Pore Size (micron): 0.45 Sample Volume (L): 1194 GO Analyzed: T				
Tre	molite	<i>7</i> 77						Filt	er Accepte	d for Analys or rejection:	_	Ces No	

Analyst .

Date

27-2

Scope

		/1000179-00	006			Ord	der ID	271	000179]	Receive	d: 05-May-10
		MR, Inc.			9	L <u> </u>	. 050410			J		G. 03-Way-10 Γ: 2 Week
Addres	Sı	East Super uite 260 uluth, MN 55			•	Location		<i>-</i> -3			<u>R</u> Wednesd	esults Due day, May 19, 2010 12:45 PM
Proje	93	NSF 2010 329-002 amples colle	ected 5/3,4,5	/2010				<u>Sp</u>	ecial Instruct	tions		12.43 FM
			NSD = No S	tructures	Detected	Structure	Types: {	F = Fiber	, B = Bundie,	C = Cluster	M = Matrix]
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D RVATION Amphi	Sketch		NGTH	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
	B 7	ND						P.		FBCM	Number	Onlys.,Amo., Ltc.
	BJ	ND								FBCM		
2	DS	No								FBCM		
	73	No								FBCM	<u> </u>	
										FBCM		
										FBCM		
										FBCM		
										FBCM		
							_			FBCM		
										FBCM		
										FBCM		
			A.							FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
(Total)		Ø							ija mys	- 5 Mg -	m management	
		pers Presen	t	N	lonasbes	tos Fibers	Present	Filt	er Type: MCI	E	.,	EM Voltage (kv): 100
	rysotil					Sypsum		Filt	er Size (mm):	25		agnification (X):_19K
	thophy nosite	yilite			(2) G			EF/	A (sq.mm) <u>: 38</u>	35		Opening Area: mm²
	ocidoli	te			=	ellulose rganic Fib	Are	Filte	er Pore Size (micron): 0.4	5 G	O Required: 4
Ac	tinolite				_	ibers Cont		s	ample Volui	me (L):	<u>3911</u>	GO Analyzed: 4
Tre	emolite	•					-		id Box # 27			D_Column 5.6
									ter Accepted 10, reason fo			res No
Analyst	K.	FESCAPO	R		Scope .	27-2		Date _	5/11/10			

		'1000179-00 MR, Inc.	007			Or	der ID	2710	000179		Receive	d: 05-May-10
	ss: 11 Sเ	East Super lite 260 lluth, MN 55			5	Sample ID Location)-4			TAT <u>R</u> e	: 2 Week esults Due lay, May 19, 2010
Proje	93	NSF 2010 329-002 amples colle	cted 5/3,4,5	5/2010				<u>Spe</u>	ecial Instruct	tions		12:45 PM
			NSD = No S	tructures	Detected	Structure	Types: { i	F = Fiber.	B = Bundle.	C = Cluster	, M = Matrix)	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	LEI ≥ 0.5 µm	NGTH	WIDTH	Structure Type	SAED Negative	EDXA
,	H8	מע					1	≥ 5 μm	μ	FBCM	Number	Chrys.,Amo., Etc.
	HIB	ND	·				 			FBCM		
2	HS	No					 	 		FBCM		
	HI	NO								FBCM		
										FBCM		
			- 							FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
		X	a a						·	FBCM		
			X/D							FBCM		
										FBCM		
										FBCM		₩ ₇
										FBCM		*
										FBCM		
										FBCM		
										FBCM		
(Total)		0								1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	XX.7	· · · · · · · · · · · · · · · · · · ·
		ers Presen	t	N	onasbes	tos Fibers	Present	Filte	er Type: MCE		T	EM Voltage (kv): 100
	ırysotil					ypsum			er Size (mm):			agnification (X): 19K
	thophy nosite	yiiite			(2) G			EFA	38 <u>: (sq.mm)</u>	35	— Grid C	Ppening Area: mm²
	ocidoli	te		1	= :	ellulose rganic Fib)Orc	Filte	r Pore Size (ı	micron): 0.4		Required:
Ac	tinolite			1 1		bers Conf		Sa	ample Volur	me (L):	<u>2541</u>	GO Analyzed: 4
Tre	emolite	•							d Box # 2 2 er Accepted			E Column 1,2
\	0.7	ESCHOOL		[o, reason fo	or rejection		*
maiyst	A P	2001/00/			Scope 4	X1-2	1	Date 2	1/1/10			

Lab I		1000179-00	008			Orc	ler ID	2711	000179]	D	
Clier		/IR, Inc.						2770		j		d: 05-May-10 Γ: 2 Week
	Su Du	East Super ite 260 lluth, MN 55 NSF 2010			\$	Sample ID: Location:					<u>R</u> <u>Wedneso</u>	esults Due day, May 19, 2010
	93	29-002	cted 5/3,4,5	/2010				Spe	ecial Instruc	tions		
		1	NSD = No S			Structure	Types: {	F = Fiber,	B = Bundle,	C = Cluster	r, M = Matrix	7
Grid I.D.	G.O.	Structure Number	Non Asbestos	1	D VATION Amphi	Sketch	LEN ≥ 0.5 μm < 5 μm	NGTH ≥5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C4	No		<u> </u>						FBCM		
<u> </u>	a	No								FBCM		
2	Ce_	No								FBCM	·	
	CIB	ND								FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
				1/2				-	- -	FBCM		
				7						FBCM		
										FBCM		
					7					FBCM		
										FBCM		
									·	FBCM		
										F B C M		
(Total)		0		100			-		X		****	
Asbes	tos Fil	ers Presen	t	N	onasbes	tos Fibers	Present	Filt	er Type: MCi			
An Am Cro	rysotile thophy nosite ocidolit tinolite emolite	llite e			(2) G (3) C (4) O	ypsum lass ellulose rganic Fib bers Conta		Filte EFA Filte Si	er Size (mm): 38 er Pore Size (ample Volui id Box #	25 micron): <u>0.4</u> me (L):	Grid 0 95 Grid 0 1600	
nalyst	L. P.	ESMADUN	·		Scope	27-2		If n	o, reason fo	or rejection		

Clien		1000179-00 //R, Inc.	009			<u>Or</u>	der ID	2710	000179		Received	d: 05-May-10	
	ss: 11 Su	East Super ite 260 luth, MN 55			S	Sample ID Location				, 	TAT: 2 Week Results Due Wednesday, May 19, 2010 12:45 PM		
Proje	93	NSF 2010 29-002 Imples colle	cted 5/3,4,5					<u>Spe</u>	ecial Instruct	tions		2:45 PM	
			NSD = No S			Structure			B = Bundle,	C = Cluster,	M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	VATION Amphi	Sketch	LE ≥ 0.5 μm < 5 μm	1	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	P2.	לג								FBCM			
	24	ND								FBCM			
	DL_	NP								FBCM			
	DX	ND								FBCM			
	DNO_	NA SAL								FBCM			
2	<i>દ</i> ળ	NΡ								FBCM			
	27	NB		İ						FBCM			
	25	NA								FBCM			
	£3	ND								FBCM			
	٤	ND								FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM		·	
			W.							FBCM			
			×\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							FBCM		1	
										FBCM			
										FBCM			
(Total)		0	-	e de side a a	. 19. 17. 19. . 18. 1				* 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		4		
_ Ch	rysotil		t	N	[] (1) G	tos Fibers sypsum	Presen		er Type: MCI er Size (mm):			EM Voltage (kv): 100	
Am Cro	thophy nosite ocidolit tinolite	te			(4) 0	ilass ellulose rganic Fib ibers Cont		EF/ Filte S	A (sq.mm): 38 er Pore Size (ample Volur id Box # _2	micron): <u>0.4</u> me (L):	Grid C 5 GC 518	Opening Area: mm² 0, 0/3 O Required: 10 GO Analyzed: 10	
Ire	molite							Filt	ter Accepted to, reason for	for Analy	sis: Z Y	EColumn <u>¶</u>	
nalyst	<u>R</u> .	peruapo	r		Scope .	27-2		Date _	5/11/10				

Client Address	s: 11 Sui Du	IR, Inc. East Super ite 260 luth, MN 55	ior Street		5	Sample ID:	ler ID	2/ /(000179]				
Address	Sui Du	ite 260	ior Street		S	cample ID.		Received: 05-May-10 TAT: 2 Week						
	4. DA	,	802			Location:			Results Due Wednesday, May 19, 2010 12:45 PM					
Projec	93	ISF 2010 29-002 mples colle	cted 5/3,4,5	/2010				tions						
			NSD = No S	tructures i	Detected	Structure	Types: { I	= Fiber,	B = Bundle,	C = Cluster,	, M = Matrix)			
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	LEN ≥ 0.5 μm < 5 μm	NGTH ≥5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.		
	172	ΝÞ	 .							FBCM				
<u> </u>	44	ND								FBCM				
<u> </u>	16	No								FBCM				
	48	ND								FBCM				
,	lio.	No								FBCM				
2 1	9	N								FBCM				
C	7	No								FBCM				
1	g	ND								FBCM				
D	3	ND								FBCM				
Į)/	NP								FBCM				
										FBCM		<u> </u>		
										FBCM				
	7									FBCM				
										FBCM				
			<u> </u>							FBCM				
			70							FBCM				
	$_{-}T$									FBCM				
										FBCM				
(Total)		0		******		ž				300				
Asbest	os Fib	ers Presen	t I	N	lonasbes	tos Fibers	Present	Filt	er Type: MC			EM Valence (L.)		
Chrysotile Anthophyllite Amosite Crocidolite Actinolite Tremolite					(1) Gypsum (2) Glass (3) Cellulose (4) Organic Fibers (5) Fibers Containing				er Size (mm) A (sq.mm): 3 er Pore Size ample Volu id Box # 2	TEM Voltage (kv): 100 agnification (X): 19K Dening Area: mm² D Required: 10 GO Analyzed: 10				
		RSIADO	rt		Filter Accepted for Ana If no, reason for rejection Scope 27-2 Date 5/11/16						ysis: Yes No			

		′1000179-0(VIR, Inc.	011				ler ID]	Received: 05-May-10 TAT: 2 Week						
	Address: 11 East Superior Street Suite 260 Duluth, MN 55802 Project: BNSF 2010					Sample ID: Location:				Results Due Wednesday, May 19, 2010 12:45 PM					
	93	329-002 amples colle						tions							
-		T	NSD = No S			Structure	-		, B = Bundle,	C = Cluster,	M = Matrix }				
Grid I.D.	G.O.	Structure Number	Non Asbestos	1	D VATION Amphi	Sketch	LEI ≥ 0.5 μm < 5 μm	NGTH ≥5µn	WIDTH Structure Type µm		SAED Negative Number	EDXA Chrys.,Amo., Etc.			
1	<u>C</u>	NO								FBCM					
<u></u>	<i>c</i> 3	No								FBCM	-				
	cs	No								FBCM					
	C7	Np								FBCM					
	9	NP								FBCM					
ν	09	ND								FBCM					
	Ć7	ND								FBCM					
	cs	ND								FBCM					
	<i>C</i> 3	NO								FBCM					
	4	NO								FBCM					
										FBCM					
							_			FBCM					
	/									FBCM					
										FBCM					
			Son				_			FBCM					
			175/	6		-				FBCM					
								-		FBCM					
										FBCM					
(Total)	0			*				\$2	and the second	**** 9				
Asbe	stos Fi	bers Presen	t	N	lonasbes	tos Fibers	Present	t Fil	ter Type: MC			EM Voltage (kv): 100			
	nrysoti				(1) G	Sypsum		l l	ter Size (mm)			agnification (X): 19K			
Anthophyllite (2					(2) G				A (sq.mm): 3			Opening Area: mm² 0,013			
					= ' '	ellulose		Filt	er Pore Size	(micron): 0.4		D Required: //ø			
Actinolite						rganic Fib			Sample Volu	me (L):		GO Analyzed: /b			
Tremolite				'	(5) Fibers Containing				rid Box # <i>2</i> Iter Accepte	d for Analys	sis: 🟒 Y	Row € Column 3.4 ✓ Yes No			
Analyst & PESCADOR Sc						If no, reason for reje						ction:			
Analyst	<u>~ /</u>	~ SCHIM			Scope .	27-2		Date .	5/11/10						



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000233

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc				EMSL-Bill to: Same Different If Bill to is Different of instructions in Comments**									
Street: 11 E. Superior St	reet, Suite	‡260		Third Party Billing requires written authorization from third party									
City: Duluth		State/P	rovince: MN	Zip/Postal Code: 55802 Country: USA									
Report To (Name): Scot	t Carney			Fax #: (218) 625-2337									
Telephone #: (218) 625-	2332 x 303			Email Addres	s: carn	ey@emr-inc.com							
Project Name/Number:	9329-002					,,							
Please Provide Results:	: 🗌 Fax		Purchase Order	•	U.	S. State Samples Ta	ken: Montana						
				Options* - Please Check									
☐ 3 Hour ☐ 6 Hours/6 hours	ur Land	24 Hour	48 Hour	72 Hour	TEM AH	96 Hour 1 1 We							
*For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. PCM - Air													
PCM - Air				· ·	only)	TEM- Dust							
☐ NIOSH 7400			AHERA 40 CFF	R, Part 763		☐ Microvac - AST	M D 5755						
w/ OSHA 8hr. TWA	w		│			☐ Wipe - ASTM □	6480						
PLM - Bulk (reporting lin			☐ EPA Level II				on (EPA 600/J-93/167)						
☐ PLM EPA 600/R-93/11	6 (<1%)		☐ ISO 10312			Soil/Rock/Vermic							
☐ PLM EPA NOB (<1%)			TEM - Bulk			1	- A (0.25% sensitivity)						
Point Count	(-0 40()						- B (0.1% sensitivity)						
☐ 400 (<0.25%) ☐ 1000 Point Count w/Gravimetric	` '		☐ NYS NOB 198.4 ☐ Chatfield SOP	(non-fnable-NY)	☐ TEM CARB 435 - B (0.1% sensitivity)							
□ 400 (<0.25%) □ 1000			☐ Chauleid SOP	unio EDA 600 oc	. 2 5	TEM CARB 435 - C (0.01% sensitivity)							
☐ NYS 198.1 (friable in N	. ,		TEM - Water: EPA		9C. Z.5	☐ EPA Protocol (Semi-Quantitative) ☐ EPA Protocol (Quantitative)							
☐ NYS 198.6 NOB (non-	•		Fibers >10µm		kina	Other:							
·	mable-IVI)		• —	Waste Drinking									
☐ NIOSH 9002 (<1%)	□ Chec	k For P		early Identify Homogenous Group									
		- COLI (ositive otop – cie	arry identity i	ioiiioge	snous Group							
Samplers Name:				Samplers Sig	nature:								
Sample #	·		Sample Description			Volume/Area (Air HA # (Bulk)	Date/Time Sampled						
050710-1			STATION # 3	3		3901 LIT	5-7-10						
050710 - 2	PERIM	ETEN	5 mm # L	(3441 UT	5-7-10						
050710-3	PERIM			< VO	10	700 5-11-11	5-3-10-						
P43 3114			Tom Long	REMOVE STACK 7	TES	1296 Li	5-7-10						
5B 2*			BLANK	•	<u></u>		5-7-10						
0B 2*			BLANK				5-7-10						
							7511-10						
Client Sample # (s):			•			Total # of Samples:	, / _						
Relinquished (Client)	Ѐ;	1 W	Date:	5-11-10		Tin	12.00						
Received (Lab):	RKM.	along	Date:	5/12/10	0.1	Tin	e: //30						
Comments/Special Instru	ictions:	¥ AA	AUZE IF C	1BBY An	1846	BOLE DETEC	700,						
							7						



EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Email: mobileasbestoslab@emsl.com Phone: (406) 293-9066

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

Phone: (218) 625-2332

9329-002

Fax:

Project:

Samples collected 5/7/2010

Customer ID:

Customer PO:

Received:

EMRI78

EMSL Order:

271000233

05/12/10 11:30 AM

EMSL Proj:

BNSF 2010

Analysis Date:

5/17/2010

Sampling Date:

5/7/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structur ≥ 0.5µ < 5µ	Sensitivity		Asbe Concen (S/m m²)	
050710-1 271000233-0001		3901.00	0.0520		None Dete	ected		0.0019	<19.00	<0.0019
050710-2 271000233-0002		3441.00			Overloade	d				
P3 271000233-0003		1296.00			Overloade	d				

Analyst(s)

Ron Mahoney (3)

R. K. Mahoney, Laboratory Manager or other approved signatory

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EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

Phone: (218) 625-2332

9329-002 Project:

Fax:

Samples collected 5/7/2010

Customer ID:

Customer PO:

Received:

05/12/10 11:30 AM

EMSL Order:

271000233

EMRI78

BNSF 2010

Analysis Date:

EMSL Proj:

5/17/2010

Sampling Date:

5/7/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for **Indirect Prep**)

Sample	mple Location		Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5µ	Analytical Sensitivity (S/cc)	Total A: Concent (S/mm²)	
050710-2 271000233-0002		3441.00	0.1300		None Det	ected	0.0080	<72.00	<0.0080
P3 271000233-0003		1296.00	0.1300		None Det	ected	0.0210	<72.00	<0.0210

Analyst(s)

Ron Mahoney (2)

R. K. Mahoney, Laboratory Manager or other approved signatory

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EMSL27 INDIRECT PREPARATION RECORD

EMSL Analytical Inc., Libby, MT

Order ID: 27/000233

Circle One: TEM Air TEM Dust TEM Wipes PCM

EFA: 360 mm²

Prepared By:

	aterial	Ashed Samples Resuspension with Ashing			N	on-AshedSamp	les	Serial Dilution Filtration						
*					Resus	pension without	Ashing	2nd	dresuspensio	n	3rc	dresuspensio	n	l for
sample*	Loose Material	Filter Fraction	Resuspended volume	Vol.applied to filter	Filter Fraction	Resuspended volume	Vol.applied to filter	Vol. of 1st resuspension used	Resuspend volume	Vol.applied to filter	Vol of 2nd resuspension used	Resuspend volume	Vol.applied to filter	Prepared for Analysis
	Y/N	fraction	mL	mL	fraction	mL	mL	mL	mL	mL	mL	mL	mL	Y/N
05070-2	Y				1	100	10							У
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							25							N
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